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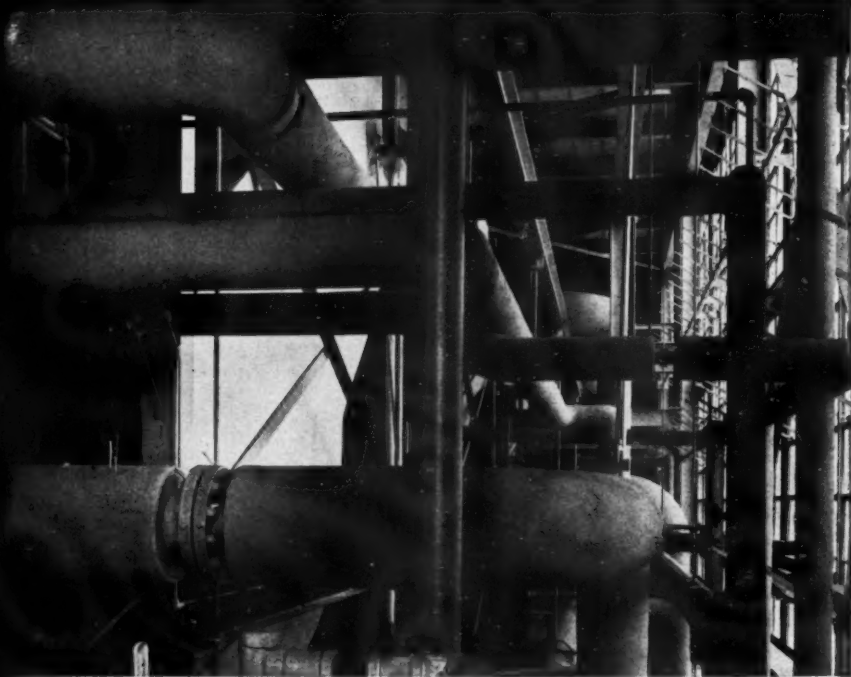
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AUTOMATION AND HIGH SPEED IN ASBESTOS FIBRE SPINNING

Increased interest shown by Asbestos Textile Trade in the "ASBESTOS-SPINGARD" Spinning Frame.

The February 1959 issue of "ASBESTOS" published information on the high speed Spinning Frame "ASBESTOS-SPINGARD" specially designed to spin and twist Asbestos fibers coming from Section Cards as developed by *Messrs. Adriano Gardella & F.lli of Genoa, Italy*. This machine, which was shown in operation at the 3rd. International Textile Machinery Exhibition at Milan in September 1959, is now gaining every day more confidence and interest in the Asbestos Textile Trade all over the world and users in Italy, France, The United Kingdom, Brazil and other Asbestos centers start reporting very attractive figures on high economical results together with high quality of asbestos yarn and twine obtainable from this machine.

The spinning method is very simple and can be synthesized as follows, viz:

The rove cheese produced by the card is placed in a prearranged way on the frame and feeds continuously a special type vertical spindle, whose characteristics have been particularly studied for a regular twisting of the asbestos rove. The latter, guided by a conductor of suitable design, goes down inside an axial, tube like, revolving flyer which gives the necessary twist to the rove.

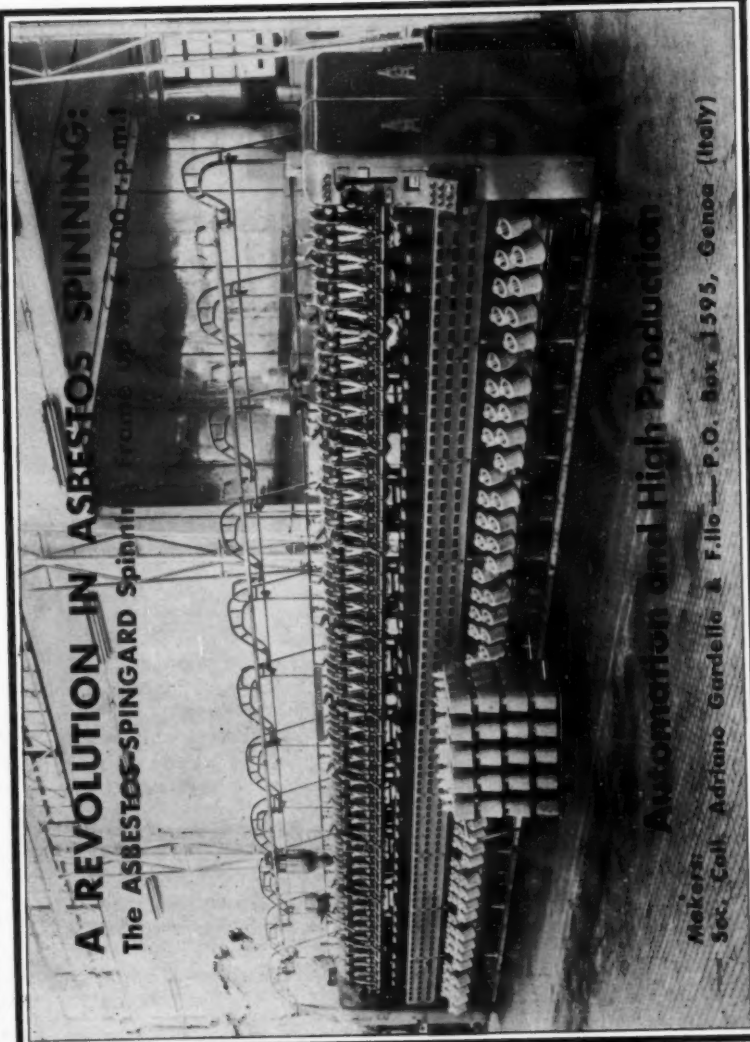
The bottom part of the twisting tube moves inside a rotating pot which receives and contains the twisted yarn in successive layers and which, at the doffing moment when the shift is completed, ejects the yarn packed in a form of crossed-wound tapered roll with hollow center on a specially designed holder of plastic material.

The rove is fed without interruption inside the vertical flyer by means of a special device which when the rove accidentally breaks, ensures an automatic restarting of the twisting action without any mechanical stop.

This automatic repiecing device, unique in its kind, is one of the main features of the frame and greatly increases the frame efficiency. Besides, it allows to assign a

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far greater number of spindles to be attended per worker. In fact the spinner's action is confined to controlling and replacing the rove on the feeding side in accordance with the high delivery speed of the frame.

The "SPINGARD" Frame for asbestos has a pre-selecting counter and therefore it is possible to presettle the length of the yarn which will be contained in every bobbin or roll (roll weight about 2.7 pounds of yarn) according to the produced yarn count. At the time of reaching the presettled length, i.e., when bobbins will be full, the frame will stop automatically and simultaneously the feeding of the rove will end on all the spindles of the machine. Therefore, it will not be necessary to cut the yarn ends when the shift and the doffing will be completed and for the same reason it will not be necessary to settle the yarn ends before the restarting of the frame. On restarting the frame, when the revolving axial flyer and the rotating pots will have reached the normal full speed condition (15" after pushing the start button) the feeding will recommence automatically and because of the repiecing device the twisting action will recommence on all the spindles, automatically, at the same time, without any worker's intervention.

For the ejection and the doffing of the finished bobbins, the frame has an oleopneumatic device assembly electromechanically driven by means of push buttons. Automatic safety devices with indicatory lamps allow to know and to localize immediately any casual improper functioning or operating fault.

Every spindle assembly, twisting axial flyer and pot, is single driven by special belts and revs. per minute of the spindle range from 5,000 to 6,500 in accordance with the quality of the asbestos rove used.

The frame is of up-to-date design, strong and perfectly machined, with great percentage of high resistance metals and fully according to the safe work Regulation. Parts rotating at high speed are dynamically prebalanced and the frame, in its completion is of easy maintenance, easy to maneuver and to be inspected. Furthermore the spinning and winding action being actuated under fully covered spindle, there is no dust flying on the machine.



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From a textile point of view, the main feature of the machine is its way of working, that is to say the way in which twist is given to the feeding asbestos rove. In fact, the rove does not suffer any violent mechanical action but only a soft axial friction action and therefore also poor quality fibers, difficult to spin or to twist because of their very short length or because of their high rigidity or brittleness, can be spun satisfactorily.

From the economical point of view, in comparison with conventional adapted ring or flyerspinning frames, at least 6 times higher production per spindle/hour/man can be obtained. In fact the operations which require the action of the worker are only:

- a) Pushing of board buttons for the ejection, doffing and restarting of the frame (1' 30"),
- b) Picking up and transport of the produced bobbins (during machine running),
- c) Change of the feeding cheeses (during machine running).

In conclusion, the new "SPINGARD" machine is proving to produce yarn of superior quality, in greater quantity, with reduced labor charge, comparatively reduced power consumption, and minor overall space. Therefore the frame will be a great help for the asbestos yarn manufacturers under the point of view of lower production-cost and of improved yarn and fabric quality. The "SPINGARD" system closes the chapter of the adapted spinning frame and opens a very promising chapter of paramount importance for the future of the Asbestos trade.

ASBESTOS BULLETIN, published bimonthly by *Aster Publishing Company**, 22-23 North Street, Guildford, Surrey, England, provides abstracts of periodical articles and patent specifications on the science, technology, and application of asbestos-based materials.

Subscription rate is £9-15s, annually, including postage.

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DEVELOPMENTS IN THE ASBESTOS-CEMENT FIELD

By: G. Stock, B. Sc., A.M.I.C.E.

We have the pleasure of printing another article by G. Stock, B. Sc., A.M.I.C.E., of the Asbestos Cement Engineering Company, Hauptstrasse 26, Vaduz-Liechtenstein (Switzerland), on developments in the Asbestos-Cement field. Our readers will remember his previous articles which have always appeared in our June number. (Editor's Note)

Since my last article, I would like to report on the new asbestos-cement plants that have been installed during the last twelve months. They are: a 5-meter pipe making plant sold to Japan; a 4-meter pipe making plant sold to Australia; a 4-meter pipe making plant, sold to the Middle East; two 4-meter pipe making plants sold to East Germany; Greece bought both a pipe making plant and a sheet making plant while Yugoslavia bought a high production sheet making plant; and, Western Germany erected a modern new sheet making plant, supplied by our Company.

KILNS. Kilns for shortening the setting time of the asbestos-cement products both in making sheets and in making pipes are more widely used every day. Sheets go through such kilns in as little as five hours. For pipes, the kilns are also used but here the problem of keeping their form is more complicated—some manufacturers keep the pipes on Steel Forms while they go through the kilns while others do not.

STEAM HARDENING. The use of steam hardening which is widely used in the United States and Australia, is now crossing the seas and is being adopted in other countries.

The reason seems to me twofold: *practical* and *theoretical*.

Practical because the asbestos-cement wares are ready for dispatch more quickly and *theoretical* because by steam hardening, an additional locally made material, called "Tobermorite", is being used today.

"Tobermorite" is a long filament-like-crystal, which by its strength and filament form contributes also to the

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reinforcement brought about by Asbestos. I call this material "locally made" because, while Asbestos is being brought usually from abroad, "tobermorite" is born on the premises by the combining of silica and calcium oxide by steam. Calcium oxide is brought in by the cement when it sets and hardens.

FLEXIBLE SHEETS. The usage of asbestos-cement flexible sheets is expanding; for interior use only.

BLUE ASBESTOS. For the making of asbestos-cement high pressure pipes, the use of Blue Asbestos instead of Chrysotile is becoming more and more popular. It is now apparent that a harsh Blue Asbestos is a cheaper way of reinforcing the pipe than Chrysotile asbestos containing talc. The fibre even of the long Chrysotile asbestos is not as strong and not as long as the fibre of Blue Asbestos.

Large pipe manufacturing companies, if they own mines of Chrysotile asbestos, use increasing quantities of Crocidolite which can now be had also in an open form, thus obviating the need of special openers.

This facility of buying Blue Asbestos for which a special opener is no longer needed and which comes in a cleaner state than before will certainly help the sales of Blue Asbestos very much.

AMOSITE. In the making of moulded asbestos-cement products the use of Amosite has been found to be a help in speeding up production. The sheets are more easily formed because they are more plastic, if Amosite is used.

By the increased use of Blue Asbestos and by steam hardening, manufacturers have found that they can now deliver pipes for even higher pressures than before. Pipes can withstand test pressures of 1,000 pounds per square inch (about 60 atmospheres) up to diameters of 16 inches.

These high pressure pipes open avenues for the use of asbestos-cement pipes as oil pipelines, and for other uses.

COUPLINGS. Readers will perhaps remember my article of two years ago regarding couplings.

The coupling, called *Multilabial*, has found enthusiastic favor with users of pressure pipes in tropical countries,



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where they state that it stands up better than other couplings with rubber rings of circular cross section.

ASBESTOS-CEMENT ROOFING. The use of asbestos-cement roofs is expanding, especially in Germany. I have heard of a single roof of a steel making factory which has the following dimensions—500 meters by 80 meters; i.e., 1,640 feet by 262 feet; i.e., about 430,000 square feet, of covered surface.

For such large roofs, big corrugated asbestos-cement sheets are currently used, especially the 10 feet sheet which is finding favor also for vertical surfaces.

On the other hand, the use is also expanding for roofing private homes; builders seeing advantages in the lightness of the sheets and the new factory, mentioned above, which our Company is erecting in Germany, is catering more for this purpose.

A 28-minute color motion picture entitled "*A Letter To Moscow*" is being distributed nationally by the **ARM-STRONG CORK COMPANY**.

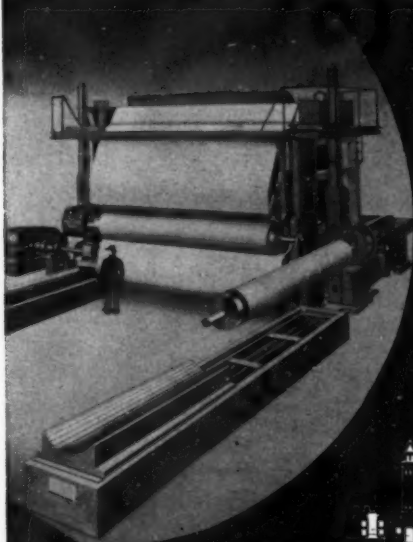
This film is sponsored by the Company as part of its centennial observance and answers challenges voiced by Soviet Premier Nikita Khrushchev during his visit to the United States in 1959. It illustrates how the nation's competitive enterprise system contributed to the high standard of living realized by the American people, traces the growth of a typical American company and shows how it was able to develop and prosper in our free society.

The 16mm motion picture is available upon request to the Armstrong Cork Company in Lancaster, Pennsylvania, or any of its district offices.

The 63rd Annual Meeting of the **AMERICAN SOCIETY OF TESTING MATERIALS** will be held June 26 to July 1, 1960, in Atlantic City, New Jersey.

The New Materials Sciences Division will sponsor the first two symposia. The full program includes fifteen additional symposia and technical sessions. More than fifty technical committees plan to meet.

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PROFILE—T. M. EVANS H. K. PORTER COMPANY, INC.



T. M. Evans

Just twenty years ago, Thomas Mellon Evans became President of H. K. Porter Company, Inc., and undertook a pattern of corporate growth which is outstanding in American business history. As a result of this growth, Porter has become a major supplier in many markets including the markets for asbestos products as manufactured by Southern Asbestos Company. This company became a subsidiary of Porter with the merger of Thermoid Company into H. K. Porter Company, Inc., in 1958.

The processes which lead to this diversified growth were not magical, however, and had many of their roots in a valuable association with William L. Mellon, head of Gulf Oil Corporation in the troubled thirties, who was a nephew of the late Andrew W. Mellon.

To start at the beginning, Tom Evans' family, only distantly related to the great Mellon family of Pittsburgh, was not wealthy. Mr. Evans began his business career as a \$100 a month clerk in the offices of W. L. Mellon at Gulf Oil following his graduation from Yale in 1931. This experience, plus his major in economics at Yale, provided a firm foundation for his later success with Porter. It was, in fact, Mr. Mellon who urged Mr. Evans to get into a business of his own.

Ordinarily, starting or buying a business in the thirties was not easy. But Tom Evans was and is not an ordinary man. He had read of the success of Floyd Odlum of Atlas Corporation in establishing personal credit through rented collateral. Mr. Mellon, who was intrigued with ingenious fiscal devices, agreed to rent Gulf Common to Mr. Evans provided the proceeds were reinvested in Gulf Stock. The market rise of 1936 and 1937 enabled Mr. Evans to realize a return sufficient to begin buying H. K. Porter bonds which were currently in default.

Porter was an old Pittsburgh company that had grown

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rich making steam switching engines during the early part of the century. It had gone steadily down hill as the market for the engines dwindled, until finally it was declared bankrupt. T. M. Evans emerged as a major bondholder. The reorganization of 1939 made him a major stockholder—and President at the age of twenty-nine.

That was twenty years ago. Today, Mr. Evans is Chairman of H. K. Porter Company, Inc., one of the nation's most highly diversified manufacturing concerns. The Company is made up of 13 divisions operating 50 manufacturing plants in the United States, Canada and Mexico.

Mr. Evans has several times stated his belief that a company must be relatively big to compete with the giant corporations. He feels furthermore, that in this economic era, "If you stand still, you are actually falling back; if you go ahead, slowly you are doing little more than standing still".

The pattern of growth was based on the theory that the most economical way to grow is to acquire good, going businesses and then develop them from within. The growth period actually began in 1945 when it became apparent that the manufacture of switching engines, the principal product of Porter at that time, was a dying business.

The period from 1945 to 1949 was one of experimentation. In the latter year, the pattern of the present day Porter Company, as we now know it, had become established. It was in this year that Quaker Rubber Corporation in Philadelphia was acquired.

This gave Porter a solid foothold in the industrial rubber industry, and later in 1958, after the Thermoid merger, Quaker and Thermoid were combined to form the present Thermoid Division, a major source for automotive and industrial rubber and friction products.

In 1950, when Delta-Star Electric Company, Chicago, came into the picture along with Connors Steel Company in Birmingham, the company was well under way. Between 1950 and 1959, more companies which became Divisions of H. K. Porter Company were acquired. At the present time, Porter is made up of 13 Divisions serving industry as follows: Friction and Rubber—Thermoid Division; Electrical Equipment—National Electric and Delta-Star Elec-

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tric Divisions; Copper and Alloys—Riverside-Alloy Metal Division; Refractories—Refractories Division; Electric Furnace Steel—Connors Steel and Vulcan-Kidd Steel Divisions; Fabricated Products—Disston, Forge & Fittings, Leschen Wire Rope and Mouldings Divisions; H. K. Porter Company de Mexico, S.A., and H. K. Porter Company (Canada) Ltd.

Porter's most recent expansion is illustrative of the company's continued rapid growth. Within a three month period, from December 1959 to March 1959, the Company acquired Thermoid Company, Trenton, New Jersey; National Electric Products Corporation, Ambridge, Pennsylvania; and, Herron-Zimmers Moulding Company, Detroit, Michigan.

Recently T. M. Evans has ranged beyond the limits of H. K. Porter Company, Inc., to assume additional responsibility as a Director, Chairman, and Chief Executive Officer of Crane Company.

As one prominent speaker said, when introducing Mr. Evans, "It is my belief that Porter—and Thomas Mellon Evans—really are only at the beginning of what is certain to be an even more interesting tale to be told at some future date".

ARMSTRONG CORK COMPANY'S Floor Technical Data Book, a 150-page hard-bound volume, was awarded a second consecutive Certificate of Exceptional Merit in the 1960 Building Products Literature Competition sponsored jointly by the American Institute of Architects and the Producers' Council, Inc.

Another Certificate of Exceptional Merit was awarded a series of three architectural advertisements featuring the Company's Custom Corlon Tile, Vinyl Corlon and Cork Tile flooring products.

Additional awards included a Certificate of Merit for Armstrong's 1960 Sweet's Catalog insert on acoustical ceiling tiles, and a Certificate of Honorable Mention for the Company's two-volume set on basic flooring types for commercial and residential interiors.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business showed some improvement during April and early May. Industrial production held steady after several months of decline. Personal income recorded a new high in April. Predictions of many industrial leaders are for sharply higher production for the latter half of this year. However steel production continues to decline and some other industries are cutting back production to meet reduced demand.

Complete collapse of the summit talks came as a surprise but was taken with a calm that gives much reassurance of the underlying strength of our economic situation. In fact the stock market in heavy trading moved strongly upward for the entire week after the refusal of the Soviet Premier to meet with the other leaders in Paris.

All in all the general business picture looks considerably better now than it did a month ago.

ASBESTOS—RAW MATERIAL.

Asbestos fibre shipments for the month of April ran at the same level of April last year. Shipments to date are running at a rate of 10% ahead of the same period last year.

However, during April and May, low activity in the asbestos consuming industries on the domestic market was experienced, which is expected to continue for the next few months. In addition, the vacation period at the mills and consumers' plants will contribute to lower than normal shipments, especially during June and July.

Export fibre demand is continuing strong and above the 1959 level. It is expected to stay healthy for the balance of the year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market situation at present continues very competitive and the hoped for pick-up in industrial buying has yet to appear.



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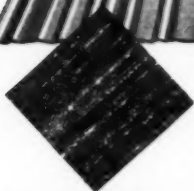
Asbestos Brake Lining. The market situation in replacement items will about equal the first five months of 1959. 1960 should be a record year in replacement sales. Equipment business (sales) will undoubtedly be lower this year due to lower purchase price per unit of the compact car sales which is making far more impact in the overall market than anticipated.

Asbestos Paper. Orders for this material have been coming in at the same rate as they have for the first quarter of 1960. Prices are competitive on this product especially where large volume is involved. It is anticipated that the volume for the remainder of 1960 will be equal to or better than last year. Orders for *Asbestos Millboard* have slowed down due to the overall braking effect on the economy. It is anticipated that after July, there may be a slight increase in the demand for this product, but this will not be as good as last year. The market situation at the present time for *Asbestos Saturated Paper* is rising from the first quarter in 1960 and the outlook for the rest of the year is good.

Asbestos-Cement Products. The market situation at the present time in residential construction is somewhat below expected levels. The situation for commercial and industrial construction is moving satisfactorily. The outlook remains uncertain for asbestos-cement siding, but should be equal to last year. On flat sheets and corrugated materials business is expected to equal last year and probably be improved on flat sheet materials.

High Pressure Insulation. Orders for this material are slow at the present time and competition is very keen among the contractors as well as manufacturers for the business which is available. Due to the amount of work that is being prepared on drawing boards and contemplated by the Industry, the volume for the remainder of the year should increase somewhat.

Low Pressure Insulation. Orders for this material are about the same as they should be for this time of the year with weather permitting building to progress more rapidly



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than during the earlier months. The outlook for the remainder of the year will be somewhat similar to 1959 which represented a fairly good volume.

Asbestos Pipes. The market has picked up seasonally but the outlook for the rest of the year remains uncertain due to unsettled conditions in the housing market.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

FRANKLIN A. MILLER Passes Away

Franklin A. Miller, retired former Director of Marketing and Merchandising of Raybestos-Manhattan, Inc., died Wednesday, May 18, 1960, at Fort Lauderdale, Florida. He was 72.

Mr. Miller, who lived at 720 Alter Road, Detroit, Michigan, retired in 1959. Death came while he was vacationing in Florida.

Mr. Miller had been associated with Raybestos-Manhattan, Inc. for 27 years and was Director of the Marketing and Merchandising Department for the last 12 years of his career. A native of Chicago, Illinois, he was educated at Northwestern University.

A nationally known authority in the automotive field, he had been associated with Chilton Company and McGraw-Hill automotive publications. Shortly after joining Raybestos-Manhattan, he became Sales Manager of the Grey-Rock Division.

Always active in the automobile field, he served on many merchandising committees and was a Director of the National Standard Parts Association, a Director of the Brake Lining Manufacturers Association, and a Director and President of the Friction Materials Standards Institute. He also served on many important committees of the National Association of Manufacturers.



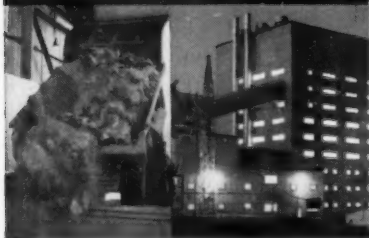
This is Carey-Canadian Asbestos
from mine, to mill, to market

*Here is your dependable source for the highest quality asbestos,
 consistently uniform from shipment to shipment.*

Complete information on Carey-Canadian Asbestos can be
 obtained by writing:

Carey-Canadian Mines Ltd., P. O. Box 95, Cincinnati, Ohio or
 Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada

modern milling methods...
 exacting quality control



swift flow of quality fibres
 and shorts to the market



BUILDING

Construction contracts in the United States in April totalled \$3,359,782,000, representing the second highest April in history, F. W. Dodge Corporation reported.

While the contracts were below April of last year, Dodge vice president and chief economist George Cline Smith said that on a seasonally adjusted basis they showed a substantial increase over March and an even greater increase over February.

On the year-to-year comparison, April was down 11% from April of last year, with declines in every major category of residential and non-residential building more than offsetting increases in heavy engineering.

This is far from the whole story, however. Contracts in April, 1959 were the highest ever recorded in any April and on a seasonally adjusted basis were the highest for any month in history, so that a decline from this peak is hardly alarming.

Moreover, the recent trend is quite encouraging. The Dodge seasonally adjusted index (1947-49 average equals 100) has risen from 234 in February to 252 in March and now to 266 in April.

The bulk of the decline in dollars from April of last year was accounted for by residential building, down 19%. The number of dwelling units covered was 110,603, down 22%. Non-residential building contracts were down 12%, with declines in all major categories. Heavy engineering contracts were up 9%, principally because of three large pipeline contracts in April.

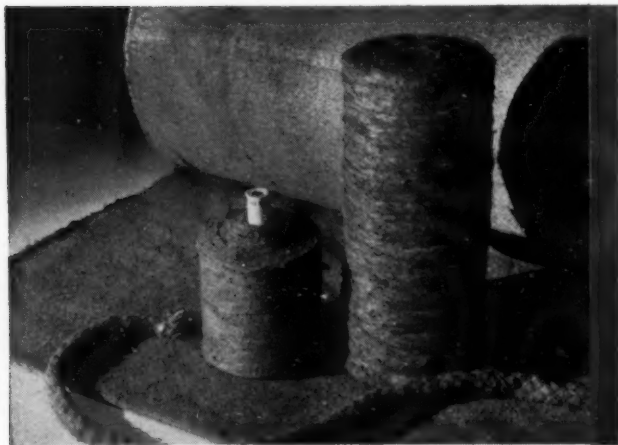
The April 1960 dollar figures by category were as follows: residential buildings, \$1,479,529,000, down 19% from April, 1959; non-residential buildings, \$1,047,751,000, down 12%; and heavy engineering, \$832,502,000, up 9%.

Cumulative totals for the first four months of 1960, with percentage changes from the corresponding period last year, were as follows: residential buildings, at \$4,676,544,000, down 14%; non-residential buildings, at \$3,598,534,000, down less than one-half per cent; heavy engineering, at \$2,530,975,000, down 4%; and total construction, at \$10,806,053,000, down 8%.

NORAMITE

... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



In the United States

NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois



In Canada

CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

Subsidiaries of The Cape Asbestos Company, Ltd., London

CAREY-CANADIAN MINES, LIMITED, announced two new Asbestos Float Grades designated 7RF-9 and 7TF-8, for use as reinforcing fillers in plastics.

Since the beginning of the plastics industry, Canadian Chrysotile Asbestos has been used as a reinforcing filler. Besides reinforcing, Chrysotile Asbestos provides functions such as reducing molding costs, making molding possible by controlling flow of material, increasing hardness, decreasing molded shrinkage, improving mechanical properties, increasing heat and fire resistance and facilitating ejection from the mold.

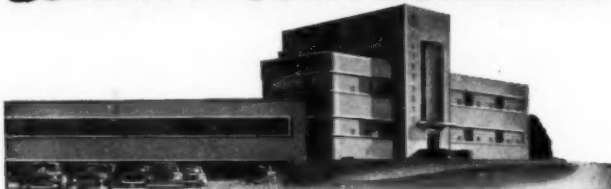
Carey-Canadian Asbestos Float Grades 7RF-9 and 7TF-8 are very fine, short fibre grades prepared and graded from material taken from the air filtration system in the asbestos mill. Grade 7RF-9 is a highly fibrous, low density, light-colored, grit free, low magnetic iron content Float. Tests have proved this grit-free Float reduces wear on highly polished mold surfaces considerably. Grade 7TF-8 is a high density, light-colored, low resin absorption Float. Because of low specific gravity, compounds using 7TF-8 Floats can be heavily filled.

Carey-Canadian Asbestos Floats are used extensively in cold molded bitumens and phenolics, thermosetting plastics, thermoplastics and premixed polyesters.

Last year, some 9,000 visitors inspected CANADIAN JOHNS-MANVILLE COMPANY LIMITED operations from the observation tower. As many as 300 or 400 stop by on a warm Sunday afternoon.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



AUTOMOBILE SALES

	March 1960
Passenger Cars	659,730
Motor Trucks	131,169
Motor Coaches	340
	<hr/> 791,239

In March 1959, a total of 686,612 motor vehicles were sold. In the three months of 1960 the total was 2,366,348.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

ATLAS ASBESTOS COMPANY LIMITED, Montreal, Canada, has announced that asbestos-cement Pressure and Sewer Pipes are now being manufactured in sizes up to 16 inches in diameter.

Marketed under the trade name "Turnall", asbestos-cement Pressure Pipe is available in Classes 100, 150 and 200; in sizes ranging from 4 to 16 inches. "Turnall" asbestos-cement Sewer Pipe is available in Classes 1500, 2400, 3300, 4000 and 5000 in the same dimensions. Both are assembled with the exclusive "Fluid-Tite" Coupling which combines ease of assembly with permanently tight joints.

NATIONAL SAFETY COUNCIL has published a new slogan-booklet, "*Safety Rhyme and Reason*". In 32 pages of slogans, poems and limericks, "Safety Rhyme and Reason" entertainingly touches on general, industrial, child, home, fire, traffic, holiday and vacation safety. A feature of the booklet is a series of 24 poems entitled "ABC's of Safe Driving".

Further information on the booklet may be obtained from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.

The world's largest asbestos mill enables Johns-Manville to offer

1. Higher quality fibre



Johns-Manville's new mill employs the most modern equipment and skilled technicians to assure highest quality within each grade.

2. Faster delivery



of any quantity

This new mill's tremendous capacity permits speedily efficient attention to all orders, large and small.

3. Greater uniformity of grade

Each grade of J-M asbestos fibre is submitted to a rigorous series of tests that assure maximum uniformity.

Write to address below
for further information and
free copy of new illustrated
8-page brochure



Asbestos Fibre Division

Canadian Johns-Manville Co., Ltd.

Box 1500, Asbestos, P.Q., Canada, Telephone: 100

L. R. HOFF, PASSES AWAY

Louis Roydon Hoff, retired Vice-President of the Johns-Manville Corporation, died in his home in Bronxville, New York, on March 20, 1960.

Mr. Hoff joined the H. W. Johns Manufacturing Company, which later became the Johns-Manville Corporation, as a stenographer in the New York office. He became general sales manager in 1913 and in 1926 was appointed president of the Johns-Manville Sales Corporation.

He retired in 1945 as vice-president of the parent corporation.

The AWARD OF MERIT was presented by the *National Safety Council* of Chicago, Illinois, to 494 men and women working for the *Johnson's Company* mine in Thetford Mines, Canada. The award honored the fact that they had worked 1,556,502 man-hours from July 1958 to December 11, 1959 without a single lost-time accident. This record is equivalent to two men working in complete safety for a total of 89 years each.

The award is only presented if a plant's safety record measures up to the rigid requirements of the National Safety Council, the largest safety organization in Canada and the United States.

"THE MAGIC MINERAL" 12-minute National Film Board film mentioned in the April issue of "ASBESTOS" includes several sequences showing the manufacture of asbestos products. These sequences were filmed at the Montreal Factory of *Atlas Asbestos Company Limited*.

Under the one roof, Atlas manufactures "Turnall" Asbestos Cement Building Materials, Pressure and Sewer Pipes, "Atlas" and "Newalls" Insulations, "Ferodo" Brake Linings and "Atlas" Asbestos Textiles.

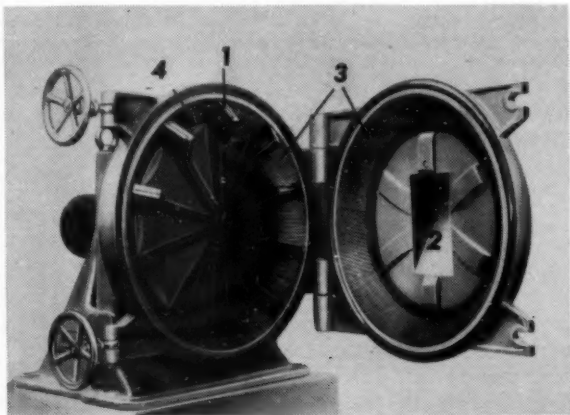
The film is the first to cover both mining and manufacturing of asbestos products.

New From Europe

Finding increasing use in North America

**FOR MAXIMUM PRESERVATION OF FIBER LENGTH
IN MILLING AND UPGRADING ASBESTOS**

PALLMANN TURBO-FIBERIZER



The Turbo-Fiberizer is an impact mill with a high velocity of air traveling through the fiberizing chamber. A rotor (1) at 2700 RPM throws asbestos entering through the chute (2) against two fixed cones. (3). A high velocity of air carries fibers through an annular gap (4) into a fan chamber.

Wearing inserts are a high chrome-moly alloy. On grade 4, production is 5 tph.

The mill is used on Canadian, Arizona and California asbestos, grades 3-7. It is used also on scrap.

Test your asbestos at our test facilities.

PALLMANN PULVERIZERS CO.

315 Newark Street

Hoboken, New Jersey

PRODUCTION STATISTICS

AFRICA (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for January 1960	11,767.68
Valued at	£593,280.00
Production for January 1959	8,566.70
Valued at	£529,709.00

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for March 1960 (Quebec)	65,795
Other Provinces	5,784
	71,579

Total production for March 1959 was 69,902 tons.

AMERICAN BRAKE SHOE COMPANY

Annual Report

American Brake Shoe Company's operations during 1959 were marked by significant expansion in overseas activities and by higher shipments and earnings than in 1958, according to the Company's 1959 Annual Report.

In his letter to shareholders, Kempton Dunn, President of the Company, noted that Brake Shoe broadened its foreign operations with the establishment of subsidiaries and affiliates in Europe and Brazil. Brakeshoe International, S.A., a wholly-owned subsidiary, was established in Switzerland to coordinate European activities for the Company. A steel forging company was established in Brazil in partnership with two other firms. In the United States, Brake Shoe acquired Raymond Atchley, Inc., a West Coast manufacturer of electro-hydraulic servo-valves and automation components.

Brake Shoe's shipments for 1959 rose to \$168,028,632, an increase of 22% above 1958. Net earnings were \$7,681,383, an increase of 61% above the 1958 figure of \$4,777,738. Net earnings per share of common stock outstanding for 1959 were \$4.72, compared with \$2.97 for 1958.

GEBR. WEHRHAHN

MASCHINENFABRIKEN

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DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes

socket pipes

flat and corrugated sheets

Projecting — Erecting — Handing over
in ready-for-operation condition

Get full information! Write now!



IMPORTS AND EXPORTS

Imports Into U.S.A.

(Figures by Bureau of Census)

	Year 1959
<i>Unmanufactured Asbestos:</i>	Tons (2,240 lbs.)
From: Canada	584,398
Union of South Africa	32,256
Australia	7,640
Rhodesia (Ny)	5,156
Yugoslavia	5,041
United Kingdom	1,197
Mozambique	584
Finland	201
Venezuela	103
British East Africa	44
Italy	14
Portugal	12
USSR	3
	636,649

Valued at\$65,005,653

By Grades:

Crude, No. 1,	Chrysotile, Canada	37
Crude, No. 1,	Chrysotile, USSR	1
Crude, No. 1,	Chrysotile, Portugal	4
Crude, No. 1,	Chrysotile, Rhodesia (Ny)	31
Crude, No. 2,	Chrysotile, Canada	27
Crude, No. 2,	Chrysotile, Rhodesia (Ny)	18
Crude, Other,	Chrysotile, Canada	239
Crude, Other,	Chrysotile, United Kingdom	67
Crude, Other,	Chrysotile, Finland	91
Crude, Other,	Chrysotile, USSR	2
Crude, Other,	Chrysotile, Portugal	8
Crude, Other,	Chrysotile, Yugoslavia	5,041
Crude, Other,	Chrysotile, Mozambique	263
Crude, Other,	Chrysotile, U. of S. Africa	1,301
Crude, Other,	Chrysotile, Rhodesia (Ny)	3,832
Crude, Blue,	United Kingdom	2
Crude, Blue,	Australia	7,640
Crude, Blue,	Mozambique	256
Crude, Blue,	Union of South Africa	15,409



Exporters of
RAW ASBESTOS

ALL GRADES—ALL TYPES

**C. J. PETROW & COMPANY (PTY.)
LTD.**

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the
industry entire machines built to deliver maximum
production.

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

Crude, Blue, Rhodesia (Ny)	410
Crude, Amosite, Italy	7
Crude, Amosite, Union of South Africa	14,712
Crude, Amosite, Rhodesia (Ny)	115
Textile Fiber, Chrysotile, Canada	18,293
Textile Fiber, Chrysotile, Venezuela	80
Textile Fiber, Chrysotile, United Kingdom ..	730
Textile Fiber, Chrysotile, Italy	7
Textile Fiber, Chrysotile, U. of S. Africa	317
Textile Fiber, Chrysotile, Rhodesia (Ny)	471
Shingle Fiber, Chrysotile, Canada	64,892
Shingle Fiber, Chrysotile, U. of S. Africa	268
Shingle Fiber, Chrysotile, Rhodesia (Ny)	180
Paper Fiber, Chrysotile, Canada	50,155
Paper Fiber, Chrysotile, U. of S. Africa	34
Other Fibers, Chrysotile, Canada	450,755
Other Fibres, Chrysotile, Venezuela	23
Other Fibers, Chrysotile, United Kingdom ..	398
Other Fibers, Chrysotile, Finland	110
Other Fibres, Chrysotile, Br. E. Africa	44
Other Fibers, Chrysotile, Mozambique	65
Other Fibers, Chrysotile, U. of S. Africa	215
Other Fibers, Chrysotile, Rhodesia (Ny)	99

636,649

Manufactured Asbestos Goods:

	Year 1959	
	Quantity (lbs.)	Value
Asbestos Yarn		
Canada	90,422	\$ 90,621
United Kingdom	326,101	232,890
Belgium	4,874	6,266
W. Germany	216	338
Italy	37,523	38,134
Israel	53,739	25,678
Japan	12,712	7,784
Asbestos Packing & Lining		
Canada	625	2,442
United Kingdom	165,386	56,827
W. Germany	818	1,074
Austria	1,257	459
Italy	5,176	7,146
Israel	18,015	9,914
Asbestos Shingles (Impreg.)		
Canada	512,134	38,582
United Kingdom	69,694	2,717
Belgium	1,084,967	131,612
Asbestos Shingles (Not Impreg.)		
Canada	2,180,895	186,376
Mexico	130,011	16,092



asbestos cement department

10, VIA SANTA TERESA
TURIN, ITALY

**Manufacturers of all types
of
Fully Automatic**

asbestos cement machinery

Daily output guaranteed according to the
International Standard Specification:

150 ton high pressure pipes

300 ton flat and corrugated sheets

Dominican Republic	7,600	333
United Kingdom	397,805	36,406
Belgium	35,289,294	2,776,863
W. Germany	1,935,318	144,872
Austria	85,956	6,912
Italy	23,057,881	950,136
Yugoslavia	492,184	21,196
Israel	7,700	836
Asbestos Manufactures—Others		
Canada .....	..	8,859
Sweden .....	..	1,060
United Kingdom .....	..	59,388
Netherlands .....	..	119
Belgium .....	..	53,945
W. Germany .....	..	605
Switzerland .....	..	5,162
	65,968,303	\$4,921,644

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.

	March 1960
From: Union of South Africa	2,005
Basutoland, Bechuanaland & Swaziland	1,411
Rhodesia & Nyasaland	4,284
Canada	1,527
Other Commonwealth Countries	
& Irish Republic .....	..
Foreign Countries	49
	9,276

JOHNS-MANVILLE CORPORATION

First Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the first quarter of 1960 were \$4,652,000, compared with \$4,646,000 for the corresponding period last year. C. B. Burnett, President and Chief Executive Officer, reported.

Sales for the first quarter of 1960 were \$74,801,000, compared with \$74,742,000 for the first quarter of 1959.

Earnings per share of common stock for the first quarter were 55 cents, compared with 56 cents for the same period in 1959.



DURASORB FELTS *for ...*



For PERFORMANCE generally ... Albany DURASORB Felts

Ask your Albany Felt Sales Engineer for a report on the highlights of the Superintendents' round table meeting on asbestos and cement operation. You'll find it tremendously interesting and informative.



**ALBANY FELT
COMPANY**

ALBANY, N. Y.

Talk it over with your Albany Felt Sales Engineer →

Imports Into U.S.A.

(Figures by Bureau of Census)

		January 1960
<i>Unmanufactured Asbestos:</i>		Tons (2,240 lbs.)
From: Canada		48,027
Union of South Africa		3,120
Australia		924
Yugoslavia		490
Rhodesia (Ny)		299
Other Countries		23
		52,883

		Valued at	\$5,551,658
<i>By Grades:</i>			
Crude, No. 1,	Chrysotile		4
Crude, No. 2,	Chrysotile		6
Crude, Other,	Chrysotile, Yugoslavia		490
Crude, Other,	Chrysotile, Rhodesia (Ny)		125
Crude, Other,	Chrysotile, Other Countries		8
Crude, Blue,	Australia		924
Crude, Blue,	Union of South Africa		1,158
Crude, Blue,	Rhodesia (Ny)		174
Crude, Amosite,	Union of South Africa		1,110
Crude, Amosite,	Other Countries		2
Textile Fiber,	Chrysotile, Canada		1,218
Textile Fiber,	Chrysotile, Other Countries		3
Shingle Fiber,	Chrysotile, Canada		7,289
Paper Fiber,	Chrysotile, Canada		4,293
Other Fibers,	Chrysotile, Canada		35,227
Other Fibers,	Chrysotile, U. of S. Africa		852
			52,883

<i>Manufactured Asbestos Goods:</i>		January 1960	
	Quantity (lbs.)	Value	
Asbestos Yarn, United Kingdom	23,895	\$	19,587
Asbestos Yarn, Other Countries	31,427		25,046
Asbestos Packing	32,621		9,788
Asbestos Shingles (Impreg.)	63,757		8,429
Asbestos-Cement Pipe & Fittings			
(Not Impreg) Belgium	1,219,918		102,339
Italy	3,542,152		147,846
Other Countries	274,237		12,561
Asbestos-Cement Mfgs, Other			
(Not Impreg)	96,796		4,930
Asbestos Manufactures — Others			1,230
		5,284,803	\$ 331,756

All that the name implies

HUYTUF

NEEDED FELTS

- Last longer
- Start faster
- Increase production
- Improve product quality
- Lower felt cost
- Make optimum use of synthetics

For the complete story
talk to your Man-from-Huyck
or write us today.



Huyck Felt Co.,
Rensselaer, N. Y.;
Aliceville, Ala.;
Division of F. C. Huyck & Sons
In Canada: Kenwood Mills Ltd.,
Araprior, Ontario.

NEW

HUYCK FELTS

★ INDUSTRIAL FABRICS

FIRST IN QUALITY • FIRST IN SERVICE SINCE 1870

Exports From U.S.A.

(Figures by Bureau of Census)

<i>Unmanufactured Asbestos:</i>		February 1960	
		Tons (2,240 lbs.)	Value
To: Europe		138	\$ 36,480
South America		54	4,242
Central America & Mexico		29	4,350
United Kingdom		23	3,128
Other Countries		53	8,014
		297	\$ 56,214

<i>Manufactured Asbestos Goods:</i>		February 1960	
		Quantity	Value
Asbestos Cement & Pipe Covering ..Lbs.		518,103	\$ 124,248
Asbestos Textiles & Yarn	Lbs.	57,156	74,016
Asbestos Packing	Lbs.	187,856	215,804
Asbestos Clutch Facing	No.	187,585	143,382
Asbestos Bk. Lng. (Mld.&S.Mld.) Lin. Ft.		128,914	56,454
Asbestos Brake Lining, Other	Lbs.	431,198	345,517
Asbestos Construction Materials ..Lbs.		1,195,741	143,279
Asbestos Manufactures — Others .....		..	82,165
			\$1,184,865

NATIONAL GYPSUM COMPANY

First Quarter Report

National Gypsum Company reported a net income of \$3,643,000, equal to 64¢ a share, for the first three months of 1960. This compared with income of \$4,488,000 or 82¢ a share for the first three months of 1959.

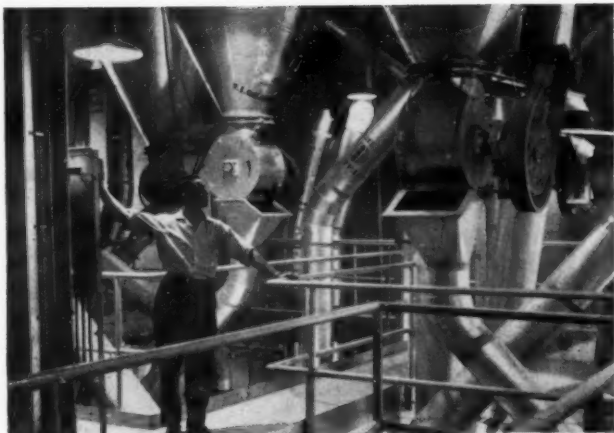
Net sales were \$43,190,000 for the first quarter of this year, compared with sales of \$4,703,000 for the same period in 1959.

THE PHILIP CAREY MFG. CO.

First Quarter Report

Sales of The Philip Carey Manufacturing Company and subsidiaries for the first three months of 1960 amounted to \$13,302,726, compared with \$15,410,137 for the same months in 1959, a decrease of 14%.

Net earnings for the period were \$218,800, compared with \$556,001 a year ago. Based on the increased number of shares presently outstanding as a result of the 20% stock dividend in January of this year, earnings per share for the three months of 1960 were 22¢ compared with 54¢ in the preceding year.



*Established source, volume source,
independent source of proven-quality
chrysotile asbestos fibre*

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

Overseas Sales Agents:

ARGENTINA
(for Argentina, Uruguay)
Ladislao Kohn, Buenos Aires

AUSTRALIA
Mount Isa Mines Ltd., Sydney

BRAZIL
"Brasimet" Comercio e
Industria S. A.,
Rio De Janeiro, Sao Paulo

CHILE
Agencies Kapel Ltda., Santiago

COLOMBIA
Holanda Colombia, S. A.,
Barranquilla

ENGLAND
(for U. K., Spain, Portugal)
Metal Traders Ltd.,
Asbestos Division, London

FRANCE
Dieppedalle & Seailles, Paris

HOLLAND
(for The Netherlands,
Belgium, Switzerland)
Kayser and Mackay,
Amsterdam

ITALY
Amianto Del Lago, Torino

JAPAN
C. Itoh Co., Ltd., Tokyo & Osaka

NORWAY
Astrup & Son, Oslo

SWEDEN
Aktiebolaget
Ingenjorsfirman Titan,
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

Exports From Canada

(Published by Dominion Bureau of Statistics)

<i>Unmanufactured Asbestos:</i>		February 1960	
	Tons (2,000 lbs.)	Value	
<i>Crude</i>			
United States	3	\$	1,957
United Kingdom .....	..		..
South America .....	..		..
Central America & Mexico .....	..		..
European Countries .....	..		..
Other Countries	3		3,570
	6	\$	5,527
<i>Milled</i>			
United States	14,540	\$2,836,486	
United Kingdom	429	80,855	
South America	402	83,801	
Central America & Mexico	490	84,570	
European Countries	915	192,483	
Other Countries	2,442	369,929	
	19,218	\$3,648,124	
<i>Shorts</i>			
United States	36,912	\$2,021,287	
United Kingdom	472	19,345	
South America	135	9,880	
Central America & Mexico	91	7,719	
European Countries	844	60,110	
Other Countries	797	60,285	
	39,251	\$2,178,626	
<i>Grand Total—</i>			
<i>Unmanufactured Asbestos:</i>	58,475	\$5,832,277	
<i>Manufactured Asbestos Goods:</i>			
Brake Lining		\$	29,738
Packing .....			..
Other Materials			34,954
		\$	64,692

Edward R. Lassone has been appointed to the position of Service Engineer, KEASBEY & MATTISON COMPANY, for "K&M" asbestos-cement pipe.

Mr. Lassone will provide technical assistance to sales personnel, and will supervise instruction and educational programs pertaining to asbestos-cement pipe installations.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



***Producers of
Raw Asbestos Crudes
& Fibres***



Sales Representatives

for

Cassiar Asbestos Corporation Limited

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- Henry Condell, Owner, Asbestos Processing Company, New York City, June 15.
- E. B. Poulin, Secretary-Treasurer, Asbestonos Corporation Limited, Montreal, Canada, June 20.
- Ladd L. Wilson, Vice-President—Sales, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.
- L. W. Clarke, Jr., The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 26.
- A. F. Moore, Retired Manager—Asbestos Department, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 26.
- Thomas J. Walters, Assistant Manager—Industrial Products Department, The Ruberoid Co., New York City, June 27.
- L. B. Palmer-Ball, President, Palmer Asbestos Company, Louisville, Kentucky, June 29.
- Vincent W. Hemphill, Secretary, Standard Asbestos Manufacturing Company, Chicago, Illinois, July 1.
- John W. McGovern, President, U. S. Rubber Company, New York City, July 5.
- Chas. S. Wood, Treasurer, Chas. S. Wood & Company, Newark, New Jersey, July 6.
- C. L. Hoshaw, Manager—Construction Division, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 7.
- G. K. McKenzie, Executive Vice-President, The Flintkote Company, New York City, July 7.
- Captain W. A. Janitch, R.E., Representative in Great Britain for Asbestos Corporation Limited, London, England, July 10.
- Alvin M. Ehret, Jr., President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.
- H. W. Prentiss, Jr., Chairman, Armstrong Cork Company, Lancaster, Pennsylvania, July 11.
- Irving McCormick, President, The McCormick Asbestos Company, Baltimore, Maryland, July 13.
- John J. Sullivan, Jr., President, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.
- Carlo M. Weber, Manager, Careystone Corrugated Department, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

James C. Crounce has been appointed to the position of Plant Manager of the Newark Gypsum Plant of FIBREBOARD PAPER PRODUCTS CORPORATION.

KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania has announced executive changes in its district sales offices in Chicago, Illinois, Cleveland, Ohio, and New York City. New offices have been opened in Los Angeles, California, and at St. Louis, Missouri, principally to handle expanding asbestos-cement pipe sales.

D. W. Frasier, District Manager of the Chicago office, has been transferred to New York City as Manager of the New York building products district.

K&M's Cleveland district, headed by **H. J. Corson**, has been divided to encompass separate divisions for building products and industrial products. Mr. Corson retains his Cleveland post with responsibility for industrial sales. Building products will be handled by **Frank Q. Chambers**, formerly Manager of the New York building products district. Mr. Chambers, in moving to Cleveland, will also direct building products sales previously channeled through K&M's Chicago office.

T. A. Harper, Assistant District Manager of industrial products in the Chicago office has been appointed to Manager of the Chicago industrial products district.

ASBESTOS PROCESSING MACHINERY

Crushing, Fiberizing, Blending,
Continuous or Batch Dry-mix-
ing of Asbestos-cement

New Cards and Improved In-
termediate Feeds, Automatic
Looms and Cop Winders.

Complete Asbestos Textile
Plants Designed to Individual
Requirements

Asbestos Rope Lagging, Mill-
board, and Non-woven Fabric
and Felt-making Machines

Testing Equipment and other machines

TEXTILE IMPROVEMENTS LTD., ASBESTOS DIVISION

22/23 North Street, Guildford, Surrey, Great Britain

Representatives for Gardella Spingard and Twistgard asbestos
spinning and twisting machines

We May Have The Machine You Are Looking For

Harry W. Hargrave was appointed Rocky Mountain District Sales Manager, Gypsum Division, FIBREBOARD PAPER PRODUCTS CORPORATION. This was announced by William K. Spence, Vice-President and General Manager of the Gypsum Division.

Glen C. Taylor has been appointed Manager, Apex Operation, Apex, Nevada and **J. M. Hogue** was appointed Plant Manager, South Gate Gypsum Plant.

These two appointments in the Gypsum Division of FIBREBOARD PAPER PRODUCTS CORPORATION were announced by W. K. Spence, Vice-President and General Manager, Pabco Gypsum Division.

G. D. Page has been appointed District Manager, Inter-Mountain District, for the Roofing Division of FIBREBOARD PAPER PRODUCTS CORPORATION, it was announced by Ralph E. Helm, General Manager of the Roofing Division.

Mr. Page has an extensive background in retail building materials sales and retail merchandising. He will headquarter in Salt Lake City, Utah.

Robert J. Littin has been appointed Merchandise Manager for Industrial Insulation Products by THE PHILIP CAREY MANUFACTURING COMPANY.

Mr. Littin, a graduate of the University of Toledo, had previously been serving in the same capacity since 1957 at the Plymouth Meeting, Pennsylvania, plant. He will be headquartered in the Company's General Offices in Cincinnati, Ohio.

Lyle L. Shepard, President of Columbian Carbon Company, was elected a new director of THE RUBEROID CO. to fill an existing vacancy. Mr. Shepard is also an officer and director of all subsidiaries of Columbian Carbon and is a member of Chemical Bank New York Trust Company's Upper Mid-town Advisory Board.

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

Provides Acid-Resistant PLUS for Phenolic and Polyester Resins

POWMINCO ASBESTOS FIBERS

America's most Inert Filler

Powminco Asbestos is the only completely fiberized acid-resistant asbestos fiber in the United States.

Powminco Asbestos, practically inert (95% insoluble), is unaffected by as much as four hours boiling in concentrated hydrochloric acid. It is this quality that gives it a distinct advantage over ordinary chrysotile fiber in molding compounds (such as phenolics) that require an acid catalyst, and in casting resins.

Because it contains so little water (it's an anhydrous magnesium silicate), unusually low shrinkage results when POWMINCO ASBESTOS is used in molding and tooling operations.

OFFERS EXCEPTIONAL ADVANTAGES

Excellent heat resistance, very high dielectric strength and extremely low magnetic iron plus high absorption, easy "blendability" and **low cost** conclusively guarantee POWMINCO ASBESTOS as the finest filler you can buy.

So that you can see the advantages of Powminco Asbestos Fiber in your own operations, we will gladly send you a working sample (for use with any resin) without cost or obligation. The coupon below will be given our prompt attention.

POWHATAN MINING COMPANY

6725 Windsor Mill Road

Baltimore 7, Md.

Please send me a working sample of Powminco Asbestos Fiber.

NAME TITLE

COMPANY

STREET

CITY ZONE STATE

Dr. Clide I. Carr and **Dr. Charles P. Roe** have been appointed Senior Research Scientists at the Research Center of UNITED STATES RUBBER COMPANY, Wayne, New Jersey, according to an announcement by Dr. L. M. White, Director of Research and Development.

William E. Clark, Vice President and General Manager, Textile Division, U. S. RUBBER COMPANY, has been renamed Chairman of the Board of *Textile Research Institute*. The 30th annual meeting of the institute was held recently in New York City. All other officers, both corporate and operational, were re-elected.

Granville T. Pownall has been elected Secretary of UNITED STATES RUBBER COMPANY by the Board of Directors, H. E. Humphreys, Jr., Chairman, recently announced.

Mr. Pownall succeeds **William M. Dougherty** who has retired after 37 years of service.

Mr. Pownall was graduated from the University of Cincinnati and studied at the Harvard Graduate School of Business Administration. He joined U. S. Rubber in 1942 and was appointed Assistant Secretary of the company in 1949, a post which he held until the time of his election as Secretary.

Orvald A. Gratias, M.Sc., Ph.D., has been appointed as a Director and Executive Vice President of ATLAS ASBESTOS COMPANY LIMITED, Montreal, Canada. This appointment was announced by Charles H. Jackson, President.

Mr. Gratias is a well-known Canadian Management Executive and before resigning his appointments in order to join Atlas, he was a Director of J & P Coats (Canada) Limited and had been President of that company since 1952.

THE RUBEROID CO.

First Quarter Report

Net sales of The Ruberoid Co. for the three months ended March 31, 1960, totaled \$24,777,816 compared with \$28,678,742 in the first quarter of 1959. E. J. O'Leary, Chairman of the Board and President, told stockholders at their annual meeting.

Net income for the 1960 first quarter amounted to \$473,144, equal to 25¢ per share on the 1,907,147 average number of shares of capital stock outstanding during the period. This compared with net income of \$1,171,228, or 62¢ per share on 1,897,723 average shares, for the quarter ended March 31, 1959.

Garlock Packing Company has announced at the annual stockholders' meeting in Palmyra, New York, on April 6, 1960, that it has contracted for the acquisition of Chetron Corporation of Los Angeles, California, as a wholly owned subsidiary.

An approved corporate name change to **GARLOCK, INC.** was also announced at the annual meeting.

Donald Gaudion was elected a Director of **GARLOCK, INC.**, Palmyra, New York. He succeeds retiring member, **Charles C. Congdon**, a Palmyra attorney, who has served on the Board since 1929.

George Mladinich, President of the **ATLANTIC ASBESTOS CORPORATION**, New York City, recently announced that the company's facilities for the manufacture of Asbestos Papers and Boards have been increased and that the expansion included the manufacture of different types of commercial papers and boards used by the Industry.



WE'LL JUMP

TO MEET YOUR SPECIAL NEEDS IN ASBESTOS TEXTILES . . .

Just let "U. S." know your asbestos textile requirements. We'll break our necks to develop the special yarn, fabric or tape that does the job for you. Spinning and weaving closely controlled for maximum uniformity at our modern Hogansville, Ga. plant.



Write Asbeston Dept., Textile Division

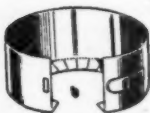
United States Rubber

Rockefeller Center, New York 20, N. Y.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

	Par	May 1960		
		Low	High	Last
American Brake Shoe	np	40½	42¾	40¾
Armstrong Cork (Com)	1	40½	44½	43
Armstrong Cork (Pfd)	np	78½	81½	79
Asbestos Corporation	np	24½	26¼	24¾
Philip Carey	10	26½	29¾	26¾
Cassiar Asbestos Corp.	np	12	12½	12¼
Celotex (Com)	1	27	32¾	27¾
Celotex (Pfd)	20	17¾	18¾	18
Certain-Teed	1	12¾	13¾	12¾
Fibreboard	np	35½	39½	37¾
Flintkote (Com)	5	33¾	37¼	36½
Flintkote (Pfd)	np	80	86	80
Johns-Manville	5	54¾	62¾	61¾
National Gypsum (Com)	1	53½	57½	55
National Gypsum (Pfd)	np	88½	91	90½
Porter, H. K.	100	89¾	90¾	89½
Raybestos-Manhattan	np	63	69	64
Ruberoid	1	35¾	38¼	37¼
Unarco	5	8¾	9¾	8¼
United Asbestos	1	\$3.45	\$5.20	\$4.35
U. S. Gypsum (Com)	4	101	108	101
U. S. Gypsum (Pfd)	100	152	154	154
U. S. Rubber (Com)	5	48½	57¾	56¾
U. S. Rubber (Pfd)	100	144½	149½	146¾



PIPE COVERING PROTECTORS

*The "Royal" All Aluminum Adjustable
and Permanent Protector for Pipe*

Covering-ends. Easy to Apply . . . Prompt Shipment.

THE PROTECTOR CO. • GRANT WILSON, INC.
SO. BOSTON 27, MASS. CHICAGO 4, ILL.

RAW ASBESTOS DISTRIBUTORS

LIMITED

**FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS**

**ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND**

CURRENT RANGE OF PRICE

As of June 10, 1960

ARIZONA—

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	.....\$1,475.00 to \$1,800.00
No. 2 Crude (soft)	.....830.00 to 1,050.00
Group-3 (Filtering & Spinning)	.....350.00 to 450.00
Group-4 (Plastic & Filtration)	.....190.00 to 250.00
Group-5 (Plastic & Moulding)	.....125.00 to 177.00
Group-7 (Refuse & Shorts)	.....60.00 to 100.00

CANADA—

Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	.....\$1,410.00 to \$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	.....610.00 to 875.00
Group No. 3 (Spinning Fibre)	.....350.00 to 650.00
Group No. 4 (Shingle Fibre)	.....180.00 to 245.00
Group No. 5 (Paper)	.....120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster)	.....86.00
Group No. 7 (Refuse or Shorts)	.....40.00 to 80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	.....\$ 353.00 to \$ 440.00
Group No. 4 (Shingle Fibre)	.....181.00 to 218.00
Group No. 5 (Paper Fibre)	.....120.00 to 142.00
Group No. 6 (Waste, Stucco or Plaster)	.....86.00
Group No. 7 (Refuse or Shorts)	.....41.00 to 75.00

Joseph N. Kuzmick, Divisional Manager of Manhattan Rubber Division, RAYBESTOS-MANHATTAN, INC., Passaic, New Jersey, was elected Director of the Corporation at the Annual Stockholders Meeting on April 5, 1960. Mr. Kuzmick was appointed Divisional Manager April 1, 1959.

Albert Whitelaw, retired executive of the Manhattan Rubber Division of RAYBESTOS-MANHATTAN, INC., Passaic, New Jersey, died April 24, 1960.

Mr. Whitelaw is a 38-year Manhattan Pioneer having started with the Company in 1922 on molded rubber products production, during which time he helped perfect the first successful hydraulic brake piston cup.



Drastic reduction of heat loss with
PABCO PRECISION-MOLDED CALTEMP
 a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—

Pabco insulations cut heat losses to absolute minimums.

"Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
 San Francisco 19 • Chicago 54
 Houston 4 • New York 16 • Los Angeles

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

UNION ASBESTOS & RUBBER COMPANY

First Quarter Report

Union Asbestos & Rubber Company, Chicago, Illinois, reported that its first quarter sales increased to \$2,709,687 from \$2,356,192 for the corresponding quarter in 1959. Earnings for the period totalled \$2,504 compared to \$10,228 for the first three months of 1959.

Eighteen sales representatives of THE RUBEROID CO., producer of building and industrial products, have been elected to membership in **The President's Club** for their outstanding work in 1959. The club is an honorary organization formed by the Company to give public recognition to salesmen with the best all-around performance for the year.

The new members and the districts in which they work are: Robert Nelson and Jack Harper, Baltimore; Marlin Cox and George McElhany, Chicago; Carroll C. Norris and Charles M. Hagest, Dallas; Donald Jacobs, Denver; LaBar Clark and Charlie Laycock, Erie; Art DeLaterre, Kansas City; Lincoln Martin, Millis, Massachusetts; Cal Foster, Minneapolis; Herbert P. Cole and W. Horace Robinson, Mobile; Robert Letcher and Harold Sorensen, New York; Nels Jansson, St. Louis; and Fred Duval, Savannah. Both Mr. Hagest and Mr. Jacobs were elected to the Club last year when it was founded.

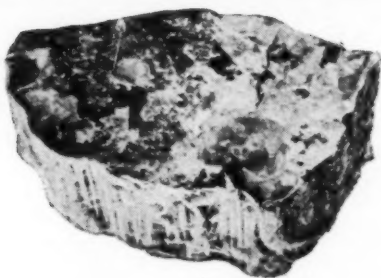
The members are named to the Club by a selection board composed of Frederick K. Sweeney, Vice President in Charge of Sales, Joseph G. Hall, General Sales Manager, and each district's sales manager. The basis for selection goes far beyond the ability to sell large quantities of products. Customer interest, knowledge of the Company's products and policies, efficient work habits and thoroughness rank high among the necessary qualifications.

Election to The President's Club is for a period of one year.



International Asbestos Cement Review
An architectural quarterly devoted to the
promotion of asbestos-cement, published
in English, French and German editions
Circulation exceeding 44,000
Editions Girsberger, 40 Kirchgasse,
Zurich, Switzerland
(U. S. agents: Wittenborn & Co.
38 East 57th Street, New York 22)

Built on a rock



Crude Asbestos is the rock on which B.B.A. is built. We use it to make everything for which asbestos is best, from yarns and cloths to all types of jointings and packings—and the world famous MINTEX friction materials and MINTEX Industrial Plastics.

Our factory leads in production; our Research Laboratories keep us at the head of development; Asbestos is our subject.

British Belting & Asbestos Ltd

CLECKHEATON · YORKSHIRE · ENGLAND

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products
by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Acoustical Composition, No. 2,921,862. Granted on January 19, 1960 to G. Sucetti. An acoustical plaster consists of a mixture of calcined gypsum, expanded vermiculite or perlite, bentonite, an air entraining agent such as vinsol resin, and a surface active agent. The acoustical properties of this basic mix can be improved by adding a fibrous material, preferably asbestos fibre.

Method for Producing Ingot Mold Stool, No. 2,992,207. Granted on January 26, 1960 to G. A. Radu, Jr. Use of asbestos paper in the fabrication of an improved mold stool for an ingot mold which as cast affords an effective seal for the open bottom end of the mold. Machining is not required.

Asphalt Adhesive Composition, No. 2,923,638. Granted on February 2, 1960 to A. J. Hoiberg and C. E. Cowger (assigned to Monsanto Chemical Company, St. Louis, Missouri). Use of short asbestos fibre, such as the Canadian chrysotile grades 7M and 7T, as the preferred filler in an asphalt adhesive composition used for affixing aluminum or other sheet metal foil to roofing structures, metal tanks, etc.

Asphaltic Compositions, No. 2,923,639. Granted on February 2, 1960, to C. E. Wilkinson (assigned to Texaco, Inc., a corporation of Delaware). In an asphalt composition adapted for use in the undercoating of automobiles or forming protective and insulating coatings on roofs, metal tanks, metal pipes, etc., the preferred filler comprises a proportioned mixture of fine asbestos fibre and a fine platy mineral, such as mica or oystershell.

Laminated Thermal Insulation, No. 2,924,537. Granted on February 9, 1960, to L. Wallis, W. H. Wheeler and C. H. Gienza (assigned to The Martin Company, a corporation of Maryland). A laminated insulator material for protecting aircraft metal parts against corrosion consists, for example, of a mixture of uncured phenol-aldehyde resin and asbestos fibre. A sheet of this mixture is molded, cured under pressure, and then given a post curing treatment under optimum conditions. One surface of this sheet is roughened and then flame sprayed with a metal to form the composite insulator material.



Lightest in weight of R/M lagging cloths, Style 32P057SRC (actual weave shown here) is available in standard rolls 40 in. wide x 50 yd. long, or in special widths on orders of 300 yd. or more.

Here's a typical saving:

Glassbestos® Style 32P057 weighs only .57 lb. per sq. yd. It is a Grade AAA fabric having a minimum inorganic content of 95%. Maximum cotton content 5%.

Our widely used SRC finish improves appearance, reduces paint absorption (only one coat needed), prevents raveling, speeds installation aboard ship and in steam power plants.

Write for full information and for samples of the complete R/M line of lagging cloths. And ask to have an R/M salesman call.



**ASBESTOS TEXTILE DIVISION
RAYBESTOS-MANHATTAN, INC.**

Manheim, Pa.

SPECIALISTS IN ASBESTOS, RUBBER, SINTERED METAL, ENGINEERED PLASTICS

ASBESTOS — TEXTILES



H. K. PORTER COMPANY, INC.

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